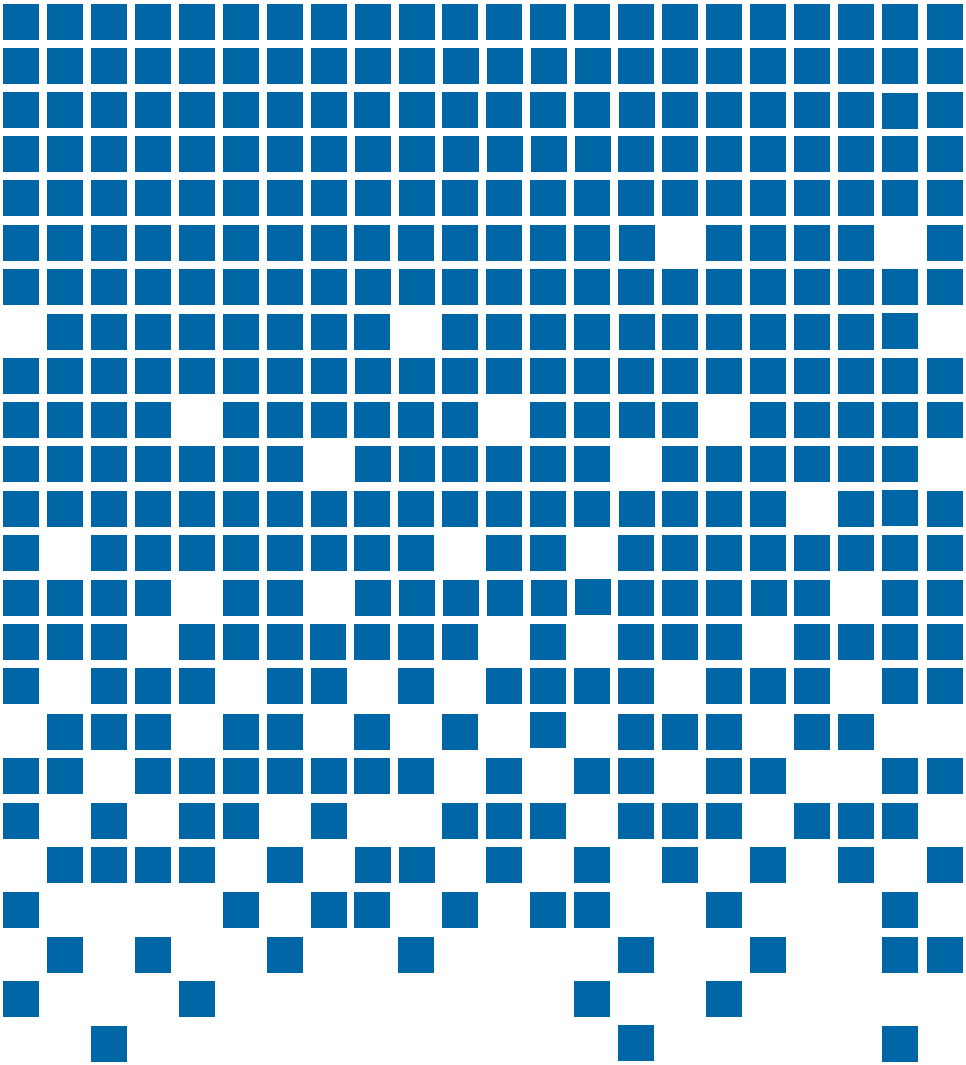

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User Guide

Video-PC to HDMI Converter / Scaler

DVI-3551a

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⚠ WARNING – Product Safety

1. Do not dismantle the product housing or modify the printed circuit board module as this may result in electrical shock or burn.

2. Do not attempt to service this product yourself as opening or removing the product housing may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel.

3. Keep this product away from liquids. Spills into the product housing may result in fire, electrical shock, or equipment damage. If liquid spills into the housing, unplug the product immediately. Have the product checked by a qualified service engineer before using it again.

4. Place the product in an even and stable location. If the product falls or is dropped, it may cause an injury and/or malfunction.

5. Avoid exposing the product to extreme temperatures or to high humidity levels as this may result in damage to the product.

6. Only use the supplied External AC Power Adapter. The use of other power adapters may cause this product to fail or may cause a fire.

7. Do not twist or exert excessive force on the ends of the cables connected to this product as this may cause it to malfunction.

Product Liability

Every effort has been made to ensure that this product is free of defects. DVIGear cannot be held liable for the use of this product or for any direct or indirect consequential damages arising from its use. It is the responsibility of the users of this product to check that it is suitable for their requirements and that it is installed correctly.

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1.0 INTRODUCTION

The model DVI-3551a is a professional quality Switcher / Converter / Scaler with an HDMI output. The unit offers switchable input connections that accommodate a wide array of input signal formats, including: HDMI, DVI (via DVI-to-HDMI adapter), RGB Analog via an HD15-pin connector, Analog Component Video (both YPbPr and YUV formats), S-Video, and Composite Video. All video inputs include stereo audio follow, which are digitally embedded in the HDMI output signal. A separate S/PDIF Coaxial Digital Audio input and output are also provided. User adjustable audio delay can be introduced to ensure proper audio lip-sync. The DVI-3551a unit features a high-performance scaling engine that allows user-selection of a wide range of PC and HDTV output resolutions up to 1920x1200 and 1080p/60.

Our professional digital distribution products have been serving the industry for over ten (10) years. DVIGear offers a full line of high quality Digital Matrix Routers, Switchers, Splitters, Video Scalers, Up/Down/Cross Converters, Format Converters, Analog-Digital Converters, as well as a wide range of long reach Digital Cables, Extenders, and Optical Transmission systems.

1.1 Features

The DVI-3551a Video-PC to HDMI Converter/Scaler offers several advanced features:

- Output Resolutions up to 1080p and WUXGA
- HDMI/DVI, RGB, YPbPr, YUV, YC, and CV Inputs
- Stereo Audio inputs with Audio Follow switching
- Adjustable Audio Delay for Lip-Sync Correction
- HDMI I/O is fully HDCP Compliant
- Infrared Remote Control
- RS232 control of all switching and display functions
- 3D Motion Adaptive De-Interlacing
- 3:2 Pull-Down with 2:2 Pull-Down Recovery
- Digital Noise Reduction
- AC Power Adapter with locking plug for add security
- Optional Rack Mount Kit

2.0 SPECIFICATIONS

Input Connections	
HDMI or DVI	1x HDMI female connector, DVI using DVI-8511b Adapter (not included)
Analog RGB	1x HD15-pin VGA female connector
Analog Component Video	3x RCA female connectors
S-Video	1x 4-pin Mini-DIN female connector
Composite Video	1x RCA female connector
Digital Audio (S/PDIF)	1x RCA female connector
Stereo Audio	6x RCA and 2x PC Audio (3.5mm)
Input Formats	
HDMI / DVI	HDMI v1.2 / HDCP 1.1 compliant (see table on page 4)
Analog RGB	Up to 1920x1200@60 Hz, 1600x1200@60Hz
Analog Component Video	YPbPr / YCbCr up to 1080p
Composite Video & S-Video (Y/C)	NTSC / PAL formats
Output Formats	
HDMI	1x HDMI female connector, HDMI v1.2 compliant
HDMI Output Resolutions	Up to 1080p@60Hz and 1920x1200@60 Hz (see table on page 5)
HDMI Embedded Audio	Digital audio per HDMI specification
Digital Coaxial Audio (S/PDIF)	1x RCA female connector
Audio Delay Adjustment	OFF, 40 ms, 110 ms, 150 ms
Device Control	
Front Panel	10x Buttons with On-Screen Display navigation
IR Remote Control	IR Remote Control with On-Screen Display navigation
RS232 Control	See tables on pages 11-14
Scaling Engine	
Phase Lock Loops	8-bit, Triple Analog to Digital Converter
De-Interlacing	3D Motion Adaptive De-Interlacing with 3D Noise Reduction
Pull-Down	3:2 with 2:2 recovery
Mechanical	
Size (H x W x D)	1.9" x 8.5" x 6.1" (47.2 mm x 215.2 mm x 154.7 mm)
Weight (net)	2.2 lbs. (1.0 kg)
Environmental	
Operating Temperature	+32° to +122°F (0° to +50°C)
Storage Temperature	+14° to +158°F (-10° to +70°C)
Operating / Storage Humidity	10% to 85%, Non-Condensing
Power Requirements	
AC Power Adapter	Input: 100-240VAC @50/60Hz Output: 5VDC @2.0A
Regulatory Approvals	
Converter/Scaler Unit	FCC, CE, RoHS
AC Power Adapter	FCC, CE, UL, CUL, PSE, GS, RoHS
Accessories	
Included Accessories	IR Remote Control Unit, AC Power Adapter, User Guide
Optional Accessories	International AC Power Adapter (USA, Euro, UK, Australia) DVI-5300-RM Rack Mount Kit

2.1 Supported Input Formats and Resolutions

The DVI-3551a accepts HDMI, DVI, Analog RGB, Analog Component Video, S-Video (Y/C), and Composite Video inputs via rear-panel connectors. The resolutions and formats supported by these inputs are as follows:

Resolution / Format		Vertical Rate (Hz)	Scan Format	Signal Format	Input Connector
NTSC/PAL	SDTV	60 NTSC, 50 PAL	Interlaced	Composite Video	RCA
NTSC/PAL	SDTV	60 NTSC, 50 PAL	Interlaced	S-Video (Y/C)	4-pin mini-DIN
480i	720x480	60	Interlaced	YUV NTSC	RCA, HDMI (1)
576i	720x576	50	Interlaced	YUV PAL	RCA, HDMI (1)
480p	720x480	60	Progressive	YPbPr / RGBHV (2)	HD15, HDMI, RCA
576p	720x576	50	Progressive	YPbPr / RGBHV (2)	HD15, HDMI, RCA
720p	1280x720	50, 60	Progressive	YPbPr / RGBHV (2)	HD15, HDMI, RCA
1080i	1920x1080	50, 60	Interlaced	YPbPr / RGBHV (2)	HDMI, RCA
1080p	1920x1080	50, 60	Progressive	YPbPr / RGBHV (2)	HD15, HDMI, RCA
VGA	640x480	60, 72, 75, 85	Progressive	RGBHV	HD15, HDMI
SVGA	800x600	56, 60, 72, 75, 85	Progressive	RGBHV	HD15, HDMI
XGA	1024x768	60, 70, 75, 85	Progressive	RGBHV	HD15, HDMI
SXGA	1280x1024	60, 75, 85	Progressive	RGBHV	HD15, HDMI
UXGA	1600x1200	60	Progressive	RGBHV	HD15, HDMI
WXGA	1280x800	60	Progressive	RGBHV	HD15, HDMI
WSXGA	1680x1050	60	Progressive	RGBHV	HD15, HDMI
WUXGA	1920x1200	60	Progressive	RGBHV	HD15, HDMI

Note 1: *This signal is actually 480i@30Hz doubled, or 576i@25Hz doubled.*

Note 2: *Analog YPbPr input is only available via the 3-RCA connectors, not via the HD15-pin Connector.*

2.2 Supported Output Formats and Resolutions

The DVI-3551a has a single HDMI output. An internal scaling engine provides user selection of a wide range of output resolutions as listed below:

Resolution / Format		Vertical Rate (Hz)	Scan Format	Signal Format	Output Connector
480i	720x480	60	Interlaced	YUV NTSC	HDMI (1)
576i	720x576	50	Interlaced	YUV PAL	HDMI (1)
480p	720x480	60	Progressive	RGBHV	HDMI
576p	720x576	50	Progressive	RGBHV	HDMI
720p	1280x720	50, 60	Progressive	RGBHV	HDMI
1080i	1920x1080	50, 60	Interlaced	RGBHV	HDMI
1080p	1920x1080	50, 60	Progressive	RGBHV	HDMI
VGA	640x480	60	Progressive	RGBHV	HDMI
SVGA	800x600	60	Progressive	RGBHV	HDMI
XGA	1024x768	60	Progressive	RGBHV	HDMI
SXGA	1280x1024	60	Progressive	RGBHV	HDMI
SXGA+	1400x1050	60	Progressive	RGBHV	HDMI
UXGA	1600x1200	60	Progressive	RGBHV	HDMI
WXGA	1280x800	60	Progressive	RGBHV	HDMI
WXGA+	1440x900	60	Progressive	RGBHV	HDMI
WSXGA	1680x1050	60	Progressive	RGBHV	HDMI
WUXGA	1920x1200	60	Progressive	RGBHV	HDMI

Note 1: *This signal is actually 480i@30Hz doubled, or 576i@25Hz doubled.*

3.0 PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- DVI-3551a Video-PC to HDMI Converter / Scaler
- AC Power Adapter
- IR Remote Control
- User Guide

Note: *Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or DVIGear immediately. Please have the Model Number, Serial Number, and Invoice Number available for reference when you call.*

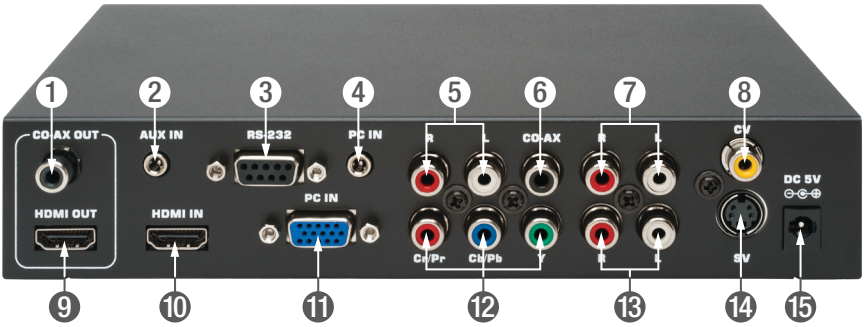
4.0 CONNECTING THE HARDWARE

Please study the images below to become familiar with the locations of the controls, signal inputs, signal output, and the power input.

Front Panel Controls: The front panel has several push buttons to manually control the unit. The numbers below the product photo relate to the control directly above the number.

1 Power ON / OFF Switch
2 Infrared Receiver Sensor
3 Composite Video Input Select
4 S-Video Input Select
5 Component Video Input Select
6 PC (RGB Analog) Input Select
7 HDMI / DVI Input Select
8 On-Screen Display Menu Select
9 Selected Menu Item Decrease (-)
10 Selected Menu Item Increase (+)
11 Enter, Select (or Memorize) Menu Item

Rear Panel Connectors: The rear panel has the connectors required to interface the unit to all Input / Output devices and the External AC Power Adapter. The numbers above and below the drawing relate to the connector directly above or below the number. Refer to the corresponding number and functional description below.



1 S/PDIF Audio Output (for use with external audio system)

2 3.5mm AUX Audio Input (for use when DVI signal is applied to the HDMI input)

3 RS-232 Control Port

4 3.5mm PC Audio Input (for use with PC audio output)

5 Stereo Audio Input for Component Video Input (2x RCA Connectors)

6 S/PDIF Digital Audio Input

7 Stereo Audio Input for Composite Video Input (2x RCA Connectors)

8 Composite Video Input (RCA Connector)

9 HDMI Video Output

10 HDMI or DVI Video Input

11 PC / RGB Analog Input (HD15-pin connector)

12 Component Video Inputs (3x RCA Connectors)

13 Stereo Audio Input for S-Video Input (2x RCA Connectors)

14 S-Video Input (4-pin mini-DIN)

15 +5 VDC Input (connects to external AC Power Adapter)

Connect the supplied AC Power Adapter to the DVI-3551a. Use only the furnished power adapter to avoid the possibility of equipment damage. Next, connect the appropriate cables to the Input(s) and Output and power ON the source and destination devices.

Plug the AC Power Adapter into the unit and into an AC wall outlet. The unit will automatically power ON. Verify that the LED above the switch lights up indicating

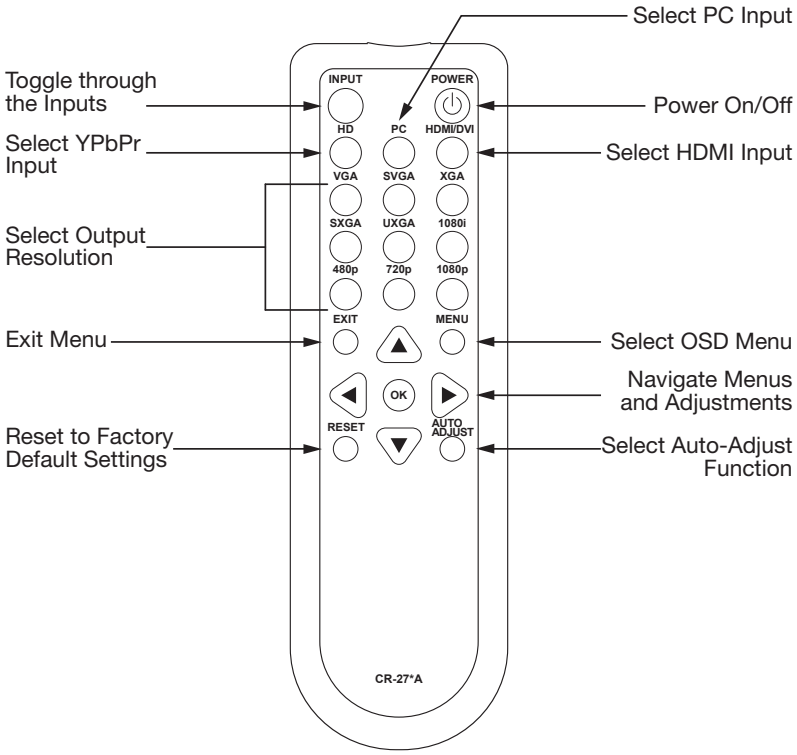
that power has been applied to the unit. Press the Power button to turn the unit OFF / ON again as needed. In the event of a power outage, this unit will automatically power ON and restore the last used settings as soon as power is reapplied to the unit.

Note: *Proper operation of this product depends on the use of the high quality cables. DVIGear's Super High Resolution (SHR™) cables provide low loss, low jitter, high bandwidth signal handling and are recommended for use with this product.*

5.0 OPERATING THE UNIT

The DVI-3551a Convert/Scaler can be operated from either the front panel controls, or via the included Infrared Remote Control unit.

Since Infrared is the control method used by the majority of users, please take the time to familiarize yourself with the location and function of the various control buttons on the Controller.



Note: *Please use the OSD menu for resolutions not directly accessible from the IR remote.*

5.1 Manual Control

Referring to the front panel image on page 6, the Power and Input selection switches have LEDs above them to indicate that the power is “ON” and/or an Input selection has been made. Simply press the Power switch and then press the appropriate input selection push button.

To the right of the Video Input selection area are the control push buttons for MENU select, Increase (+), Decrease (-), and ENTER. Pressing the MENU push button causes the OSD (On-Screen Display) menu to appear. See Section 5.2 below for a detailed description of the OSD menu system.

5.2 Using the On-Screen Display Menus

Regardless of whether you operate the Converter/Scaler from the front panel or using the IR Remote Controller, it is necessary to become familiar with the On-Screen Display (OSD) menu system in order to take full advantage of the capabilities of this product.

5.2.1 Menu Navigation

Press the “MENU” button to display the OSD Menu. Use the front panel controls marked “+” and “-“ to navigate to the desired function and then press the ENTER button to make the selection. Next, use the “+” and “-” buttons to make the adjustment and press the ENTER button to save your selection. To leave the OSD Menu, highlight the word “Exit” in any menu and then press the ENTER button.

When using the IR remote controller, press the MENU key to activate the OSD Menu. Use the arrow buttons to navigate to the desired menu selection then press the “OK” button. Next, use the arrow buttons to make the adjustment then press the “OK” button to save the setting. Press the EXIT button to escape from the OSD Menu.

5.2.2 Menu Structure

The Converter/Scaler’s OSD Menu is organized in two levels. The first level allows selection of the main menu functions (Video, Color, Output, OSD Characteristics, Audio, Information, and Exit). The second level allows specific adjustments or operational selections to be made. The table below and on the following page shows the relationship of the high level and secondary menu functions that are used to make up the OSD. To use these functions, proceed as follows:

Display the OSD Menu and use the Decrease (-) push button to move upwards and the Increase (+) push button to move downwards through the menu list. Use the ENTER push button to select the desired high-level menu item (Video, Color, Output, OSD Characteristics, Audio, Information, or Exit).

Navigate to the specific parameter you wish to adjust and then press the ENTER push button to make the selection. Use the Decrease (-) and Increase (+) push buttons to select a different value for the parameter (e.g., change output resolution or change brightness). Use the Exit selection to leave the OSD Menu.

High Level	Secondary Level	Adjustment
VIDEO	Picture Mode	User / Standard / Vivid / Movie
	Contrast	0-100 Relative Contrast Adjustment
	Brightness	0-100 Relative Brightness Adjustment
	Hue	0-100 Relative Hue Adjustment
	Saturation	0-100 Relative Color Level Adjustment
	Sharpness	0-100 Relative Picture Sharpness Adjustment
	Scale	Overscan / Underscan / Letterbox / Panscan / Full
	Noise Reduction	Low / Middle / High / Off
	Exit	Return to High Level Menu
COLOR	Color Tone	User / Normal / Warm / Cool
	Red	0-100 Relative Red Color Level
	Green	0-100 Relative Green Color Level
	Blue	0-100 Relative Blue Color Level
	Exit	Return to High Level Menu
OUTPUT (1)		VGA, SVGA , XGA, SXGA, UXGA, SXGA+, 480I, 480P, 720P60, 1080I60, 1080P60, 576I, 576P, 720P50, 1080I50, 1080P50, NATIVE, WXGA, WSXGA, WUXGA, WXGA+
	Exit	Return to High Level Menu
OSD CONTROL (2)	H Position	0-100 Relative L-R Position
	V Position	0-100 Relative U-D Position
	Timer	0-100 Relative OSD Show Time (Sec)
	Transparency	0-100 Relative OSD Text Transparency
	Exit	Return to High Level Menu
AUDIO (3)	Source	HDMI / L-R / Coaxial
	Delay	OFF / 40 ms / 110 ms / 150 ms
	Sound	ON / Mute
	Exit	Return to High Level Menu
INFORMATION (4)		Source (Input Interface) Input (Input Resolution) Output (Output Resolution) Version (Firmware Version)
Exit		Close the OSD Menu

OSD Menu Notes:

Note 1: *The Output sub-menu provides user-selection of the desired output resolution. Please be aware that some output resolution settings can cause an apparent malfunction if the selected resolution is not compatible with the connected display device.*
CAUTION: *Make certain your display device can reproduce the resolution you select BEFORE you select it.*

Note 2: *The OSD sub-menu provides user-selection of the On-Screen Display location and appearance to suit personal preference. You can change the default settings if you wish, or simply leave it at the factory setting.*

Note 3: *Since Video and Audio Lip-Sync can be lost in digital television systems, this unit provides a secondary menu item called "Delay" under the Audio high level menu selection. An audio delay can be introduced to restore proper lip-sync. Use this function if you hear audio before the video portion of the program appears to make the corresponding sound.*

Note 4: *The Info sub-menu contains technical information. If you have problems with this unit and require assistance, a technician may ask you to read information from this menu as part of the troubleshooting process.*

5.3 RS-232 Protocol

The DVI-3551a is equipped with a RS-232 serial control port. The connection between the DVI-3551a and PC host controller should be made with an RS-232 modem cable.

Pin-Out of RS-232 Modem Cable

DVI-3551a			Host Controller	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	TxD		2	RxD
3	RxD	→	3	TxD
4	NC		4	NC
5	GND	←	5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

RS-232 Transmission Format:

Baud Rate: 19,200 bps
Data Bit: 8 bits
Parity: None
Stop Bit: 1 bit

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5.4 RS-232 Set Commands:

Command Code	Response	Description
S POWER 0	> POWER OFF	POWER OFF
S POWER 1	> POWER ON	POWER ON
S SOURCE 0	> SOURCE CV	CV INPUT
S SOURCE 1	> SOURCE SV	SV INPUT
S SOURCE 2	> SOURCE COMP	COMP INPUT
S SOURCE 3	> SOURCE PC	PC INPUT
S SOURCE 4	> SOURCE HDMI	HDMI INPUT
S OUTPUT 0	> OUTPUT NATIVE	NATIVE RESOLUTION OUTPUT
S OUTPUT 1	> OUTPUT VGA	VGA RESOLUTION OUTPUT
S OUTPUT 2	> OUTPUT SVGA	SVGA RESOLUTION OUTPUT
S OUTPUT 3	> OUTPUT XGA	XGA RESOLUTION OUTPUT
S OUTPUT 4	> OUTPUT SXGA	SXGA RESOLUTION OUTPUT
S OUTPUT 5	> OUTPUT UXGA	UXGA RESOLUTION OUTPUT
S OUTPUT 6	> OUTPUT 480I	480I RESOLUTION OUTPUT
S OUTPUT 7	> OUTPUT 480P	480P RESOLUTION OUTPUT
S OUTPUT 8	> OUTPUT 720P60	720P 60HZ RESOLUTION OUTPUT
S OUTPUT 9	> OUTPUT 1080I60	1080I 60HZ RESOLUTION OUTPUT
S OUTPUT 10	> OUTPUT 1080P60	1080P 60HZ RESOLUTION OUTPUT
S OUTPUT 11	> OUTPUT 576I60	576I 60HZ RESOLUTION OUTPUT
S OUTPUT 12	> OUTPUT 576P60	576P 60HZ RESOLUTION OUTPUT
S OUTPUT 13	> OUTPUT 720P50	720P 50HZ RESOLUTION OUTPUT
S OUTPUT 14	> OUTPUT 1080I50	1080I 50HZ RESOLUTION OUTPUT
S OUTPUT 15	> OUTPUT 1080P50	1080P 50HZ RESOLUTION OUTPUT
S OUTPUT 16	> OUTPUT WXGA	WXGA RESOLUTION OUTPUT
S OUTPUT 17	> OUTPUT WSXGA	WSXGA RESOLUTION OUTPUT
S OUTPUT 18	> OUTPUT WUXGA	WUXGA RESOLUTION OUTPUT
S OUTPUT 19	> OUTPUT WXGA+	WXGA+ RESOLUTION OUTPUT
S OUTPUT 20	> OUTPUT SXGA+	SXGA+ RESOLUTION OUTPUT

5.4 RS-232 Set Commands: (continued)

Command Code	Response	Description
S SIZE 0	> SIZE FULL	SCALER FULL OUTPUT
S SIZE 1	> SIZE OVERSCAN	SCALER OVERSCAN OUTPUT
S SIZE 2	> SIZE UNDERSCAN	SCALER UNDERSCAN OUTPUT
S SIZE 3	> SIZE LETTERBOX	SCALER LETTERBOX OUTPUT
S SIZE 4	> SIZE PANSCAN	SCALER PANSCAN OUTPUT
S PICTUREMODE 0~3	> PICTUREMODE STANDARD~USER	0:STANDARD;1:MOVIE;2:VIVID;3:USER, PICTURE MODE OUTPUT
S CONTRAST 0~100	> CONTRAST 0~100	CONTRAST 0~100 ADJUST [Default: 45]
S BRIGHTNESS 0~100	> BRIGHTNESS 0~100	BRIGHTNESS 0~100 ADJUST [Default: 46]
S HUE 0~100	> HUE 0~100	HUE 0~100 ADJUST [Default: 50]
S SATURATION 0~100	> SATURATION 0~100	SATURATION 0~100 ADJUST [Default: 56]
S SHARPNESS 0~100	> SHARPNESS 0~100	SHARPNESS 0~100 ADJUST [Default: 32]
S NR 0~3	> NR OFF~HIGH	NR CONTROL 0:OFF; 1:LOW; 2:MIDDLE; 3:HIGH
S PCHPOSITION 0~100	> PCHPOSITION 0~100	H POSITION 0~100 ADJUST
S PCVPOSITION 0~100	> PCVPOSITION 0~100	V POSITION 0~100 ADJUST
S PCCLOCK 0~100	> PCCLOCK 0~100	PC MODE CLOCK 0~100 ADJUST
S PCPHASE 0~63	> PCPHASE 0~63	PC MODE PHASE 0~63 ADJUST
S COLORTEMP 0~3	> COLORTEMP NORMAL~USER	0:NORMAL; 1:WARM; 2:COOL; 3:USER , COLOR TEMP SETTING
S RED 0~100	> RED 0~100	COLOR TEMP "RED" ADJUST [Default: 47]
S GREEN 0~100	> GREEN 0~100	COLOR TEMP "GREEN" ADJUST [Default: 47]
S BLUE 0~100	> BLUE 0~100	COLOR TEMP "BLUE" ADJUST [Default: 47]
S OSDHPOSITION 0~100	> OSDHPOSITION 0~100	OSD H POSITION 0~100 ADJUST [Default: 50]
S OSDVPOSITION 0~100	> OSDVPOSITION 0~100	OSD V POSITION 0~100 ADJUST [Default: 50]
S OSDTIMEOUT 0~100	> OSDTIMEOUT 0~100	OSD TIMEOUT 0~100 SETTING [Default: 10]
S OSDBACKGROUND 0~8	> OSDBACKGROUND 0~8	OSD OSDBACKGROUND 0~8 ADJUST [Default: 5]
S AUDIOMUTE 0~1	> AUDIOMUTE OFF~ON	0:OFF ; 1:ON , AUDIO MUTE CONTROL
S AUDIODELAY 0~3	> AUDIODELAY OFF~150MS	0:OFF ; 1:40MS ; 2:110MS ; 3:150MS , AUDIO DELAY SETTING
S RESET 1	> RESET ON	RESET ACTION

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5.5 RS-232 Status Commands:

Command Code	Response	Description
R POWER	> POWER ON	SHOW POWER STATUS
R SOURCE	> SOURCE CV~HDMI	SHOW SOURCE STATUS
R OUTPUT	> OUTPUT NATIVE~SXGA+	SHOW OUTPUT STATUS
R SIZE	> SIZE FULL~PANSCAN	SHOW SIZE STATUS
R PICTUREMODE	> PICTUREMODE STANDARD~USER	SHOW PICTURE MODE STATUS
R CONTRAST	> CONTRAST 0~100	SHOW CONTRAST STATUS
R BRIGHTNESS	> BRIGHTNESS 0~100	SHOW BRIGHTNESS STATUS
R HUE	> HUE 0~100	SHOW HUE STATUS
R SATURATION	> SATURATION 0~100	SHOW SATURATION STATUS
R SHARPNESS	> SHARPNESS 0~100	SHOW SHARPNESS STATUS
R NR	> NR OFF~HIGH	SHOW NR STATUS
R PCHPOSITION	> PCHPOSITION 0~100	SHOW PC H-POSITION STATUS
R PCVPOSITION	> PCVPOSITION 0~100	SHOW PC V-POSITION STATUS
R PCCLOCK	> PCCLOCK 0~100	SHOW PC CLOCK STATUS
R PCPHASE	> PCPHASE 0~63	SHOW PC PHASE STATUS
R COLORTEMP	> COLORTEMP NORMAL~USER	SHOW COLOR TEMP STATUS
R RED	> RED 0~100	SHOW COLOR TEMP RED STATUS
R GREEN	> GREEN 0~100	SHOW COLOR TEMP GREEN STATUS
R BLUE	> BLUE 0~100	SHOW COLOR TEMP BLUE STATUS
R OSDHPOSITION	> OSDHPOSITION 0~100	SHOW OSD H-POSITION STATUS
R OSDVPOSITION	> OSDVPOSITION 0~100	SHOW OSD V-POSITION STATUS
R OSDTIMEOUT	> OSDTIMEOUT 0~100	SHOW OSD TIMEOUT STATUS
R OSDBACKGROUND	> OSDBACKGROUND 0~8	SHOW OSD BACKGROUND STATUS
R AUDIOMUTE	> AUDIOMUTE OFF~ON	SHOW AUDIO MUTE STATUS
R AUDIODELAY	> AUDIODELAY OFF~150MS	SHOW AUDIO DELAY STATUS

6.0 TROUBLESHOOTING

If this unit does not appear to be functioning, bypass the Converter/Scaler by connecting each source device directly to a known good display device with a short set of cables and verify that a proper image and sound are present.

If the signal is present under these conditions, make certain that the power is present to the Converter/Scaler unit. Next, check all cables for a secure fitting and any signs of damage.

Note: *Use of low quality cables can seriously degrade the performance of this product. To ensure optimal performance and maximum cable distance, use premium quality cables such as DVIGear's Super High Resolution (SHR™) Series or equivalent.*

As a final step before contacting technical support, use the IR remote and press the RESET button to return the unit to the default settings.

Should the problem persist after trying the above suggestions, please contact your dealer for additional assistance. Should the dealer's technical personnel be unable to assist you, please contact DVIGear via telephone at 1.888.463.9927 (Toll-Free for United States and Canada), or 1.770.421.6699. You may contact DVIGear by e-mail at support@dvigear.com.

7.0 LIMITED WARRANTY

LIMITED WARRANTY – With the exceptions noted in the next paragraph, DVIGear, Inc. warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of three (3) years from the date of purchase. Should this product, in DVIGear's opinion, prove defective within this warranty period, DVIGear, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of DVIGear. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from DVIGear and return the product freight prepaid to a location designated by DVIGear. After repairs are complete, the product will be returned, freight prepaid.

LIMITATIONS - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is limited to 3 years from the date of purchase. DVIGear assumes no liability to distributors, resellers, end-users, or any third-parties for any loss of use, revenue, or profit.

DVIGear makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of DVIGear with respect to any defective products will be limited to the repair or replacement of such products. In no event shall DVIGear be responsible or liable for any damage arising from the use of such defective products whether such damages are direct, indirect, consequential or otherwise and whether such damages are incurred by the reseller, end-user, or any third-party.

8.0 REGULATORY COMPLIANCE

This product has been tested for compliance with appropriate FCC and CE rules and regulations and is RoHS compliant.

The AC Power Adapter has been tested for compliance with FCC, CE, UL, CUL, PSE, GS rules and regulations and is also RoHS compliant.

DVIGEAR

Your Digital Connectivity Experts

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